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INVESTIGATION OF ERTS/RBV IMAGERY FOR PHOTOMAPPING OF THE UNITED STATES

(E73-10602) INVESTIGATION OF ERTS/RBV
IMAGERY FOR PHOTOMAPPING OF THE UNITED
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Type I Progress Report
ERTS-A

- a. Title: Investigation of ERTS/RBV Imagery for Photomapping of the United States

ERTS-A Proposal No.: SR 211
- b. GSFC ID No. of P.I.: 056
- c. Problems: Variations in the tone and density of negatives and film positives received from NASA have caused some problems in producing uniform tone between positive prints used to assemble mosaics.
- d. Accomplishments: The Phoenix and Washington, D.C., 1:250,000-scale photomosaics were assembled and rejected for the reason stated in C above. A new procedure is now used that is producing more satisfactory results.

A computer program that fits a grid to an ERTS photomosaic has been revised for use on the USGS Cartoplot. About 20 control points per 1:250,000-scale series photomosaic are input to supply data for a least-squares fit of the grid to the imagery. Six registration points and the 15-minute graticule intersections are also plotted. This process inverts the usual procedure of fitting imagery to a grid; the grid is fitted to the imagery and on the two photomosaics so far processed positional accuracy falls within the National Map Accuracy Standard for 1:250,000-scale maps.
- e. Significant results: N/A
- f. Published articles and papers: N/A
- g. Recommendations: The "Proposal Summary Form" indicates that the duration of the investigation would be approximately 12 months. However the delay in launch and a change in emphasis from RBV to MSS imagery delayed the initial effort as originally planned. In addition, a physical move of operational facilities caused further delays. Consequently approximately 12 additional months will be required to complete this investigation. No additional funds are requested.
- h. Changes in Standing Order Forms: N/A
- i. ERTS Image Descriptor Forms: N/A
- j. DCP Status: N/A